SV2-618B

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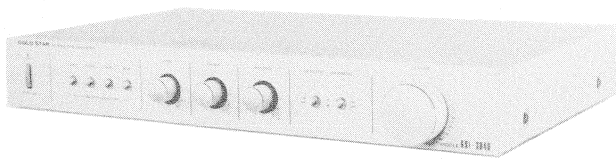
Gold Star Audio

SERVICE MANUAL

for

service technician



Gold Star Co., Ltd.

STEREO PRE AMPLIFIER

GSF-3040

slim type component series

SPECIFICATIONS

This specifications may be changed for improvement of performance without notice.

Output level/impedance (RCA or DIN)	
Preout	800mV/1kΩ
Tape out (Rec)	1mV/1kΩ
Input Sens./impedance (RCA or DIN)	
Tuner, Aux	200mV /500kΩ
Phono	3mV/47kΩ
T.H.D.	0.02%
Frequency response	
Tuner, phone, Aux, Tape	20-20000Hz
Signal to noise ratio	
Tuner, Aux. Tape	75dB
Phono	70dB
Channel separation	
Tuner, Aux, Tape	55dB
Phono	50dB

Tone control	
Bass	±10dB (at 100Hz)
Treble	±10dB (at 10kHz)
High filter effect	-10±2dB (at 20kHz)
Loudness	100Hz : +8dB 10kHz : +6dB
Semiconductors	11TR, 11Diode 1 LED
Power consumption	3W (Max.)
Weight	2.6 Kg
Dimensions	420(W)x55(H)x 260(D)mm

printed in Korea Apr., 1982

To service technician

This service manual contains detailed service information for stereo pre amplifier, Model GSF-3040. Illustration of the model appears on front cover.

Please give attention to next caution.

The followings are the safety servicing guidelines for all audio amplifiers and radio receivers.

Service work should be performed only after you are familiar with all of the following safety guide. To do otherwise increases the risk of potential hazards and injury to the user.

Safety guide

1. Be sure that all components are positioned in such a way to avoid possibility of adjacent components shorts.
   This is especially important on those chassis which are transported to and from the repair shop.
2. Always replace all protective devices such as insulators and barriers after working on a receiver.
3. Check for frayed insulation on wires including the AC cord. Also check across the-line components for damage and replace if necessary.
4. All fuses and certain resistors and capacitors which are of the flameproof type must be replaced with exact same types to prevent potential fire hazard.
5. After re-assembly of the set always perform an AC-leakage test on the exposed metallic parts of the cabinet such as the knobs, switch, etc. to be sure the set is safe to operate without danger of electrical shock.

To order repair parts

Parts orders must contain:

1. Model Number-found on front cover in this service manual
2. Part Number, Description and Quantity.

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DISASSEMBLY INSTRUCTIONS

1. To remove top cabinet

Remove four screws (A) as shown in Fig. 1.

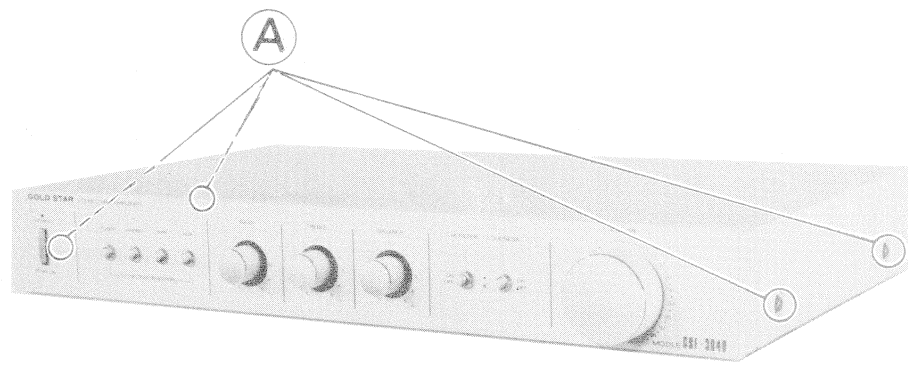


Fig. 1

2. To remove front panel

When replacing parts situated on the front panel such as the power switch, function selectors, volumes etc., remove six screws (B) and (C) . (See Fig. 2 & 3)

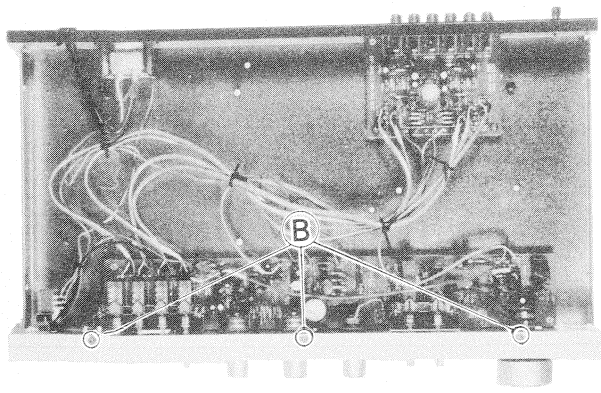


Fig. 2

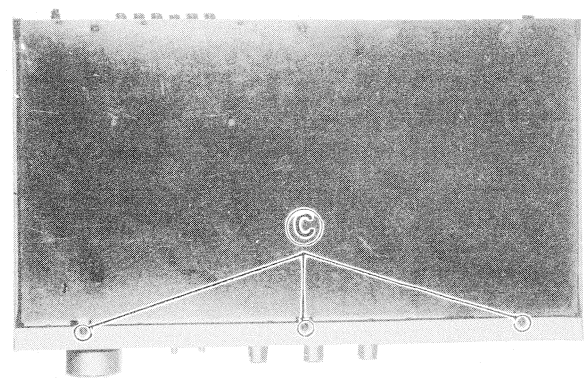
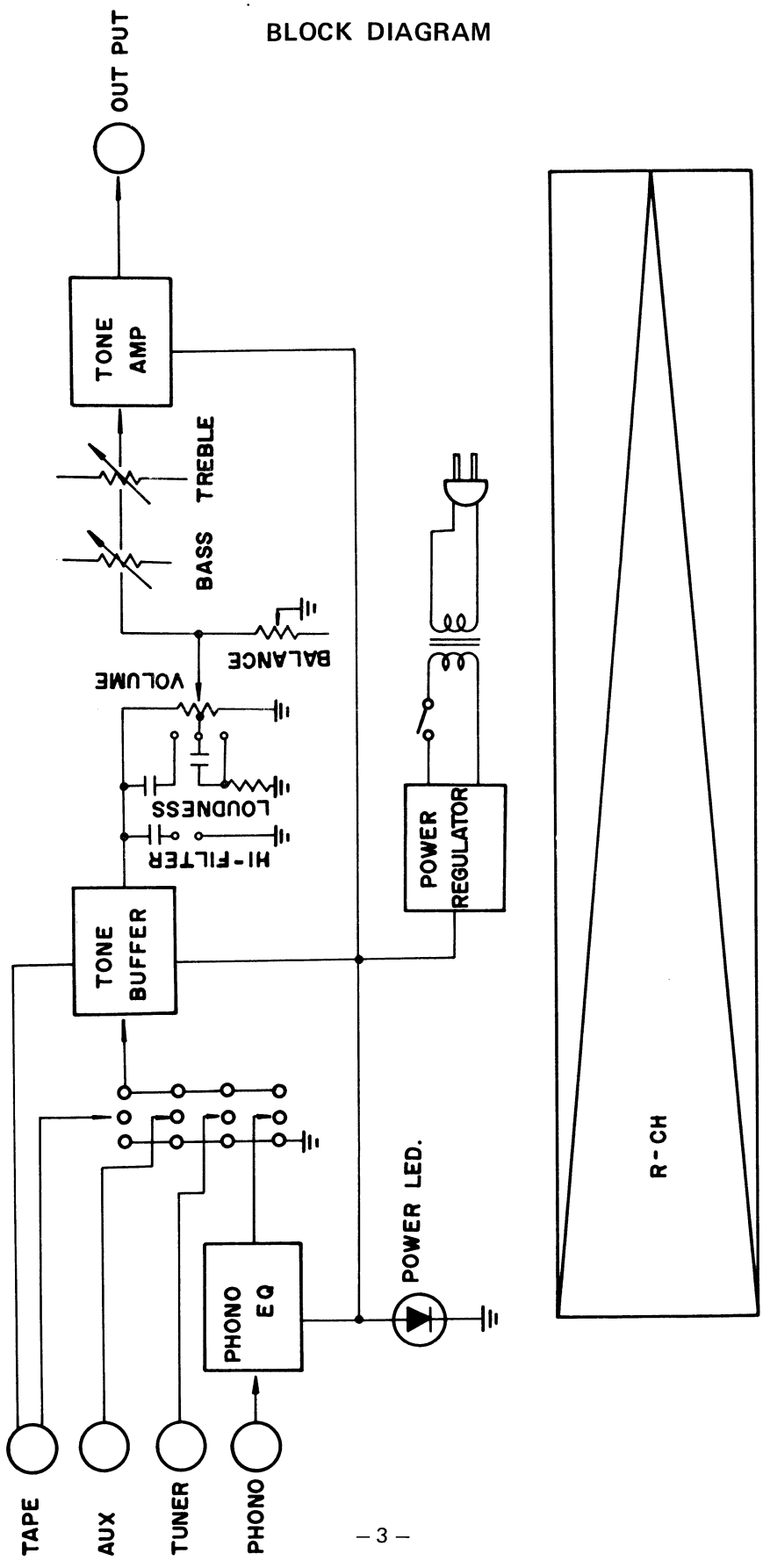
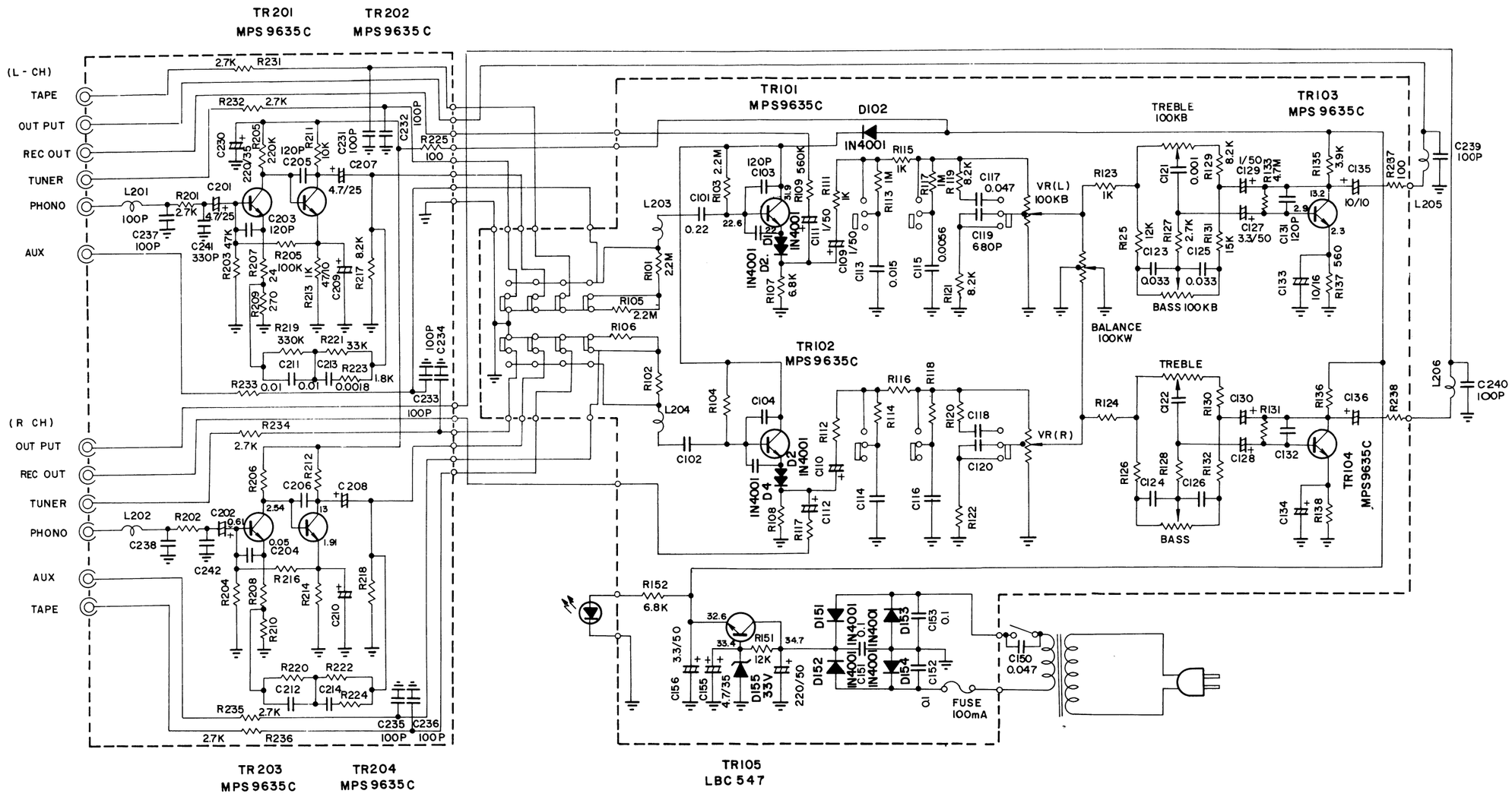


Fig. 3

BLOCK DIAGRAM



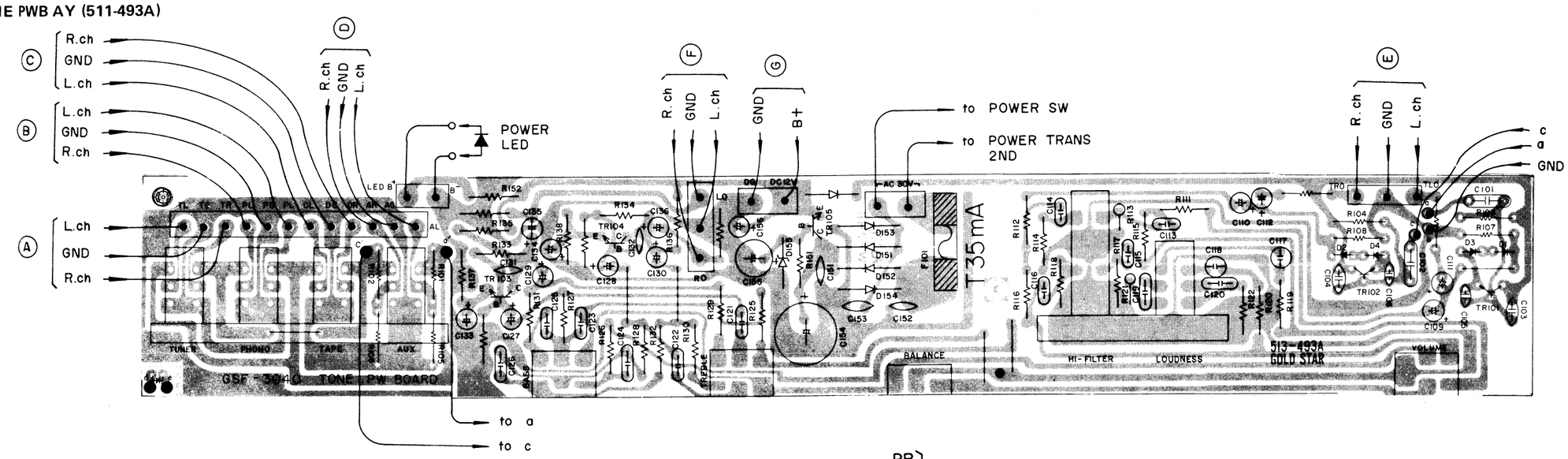
SCHEMATIC DIAGRAM



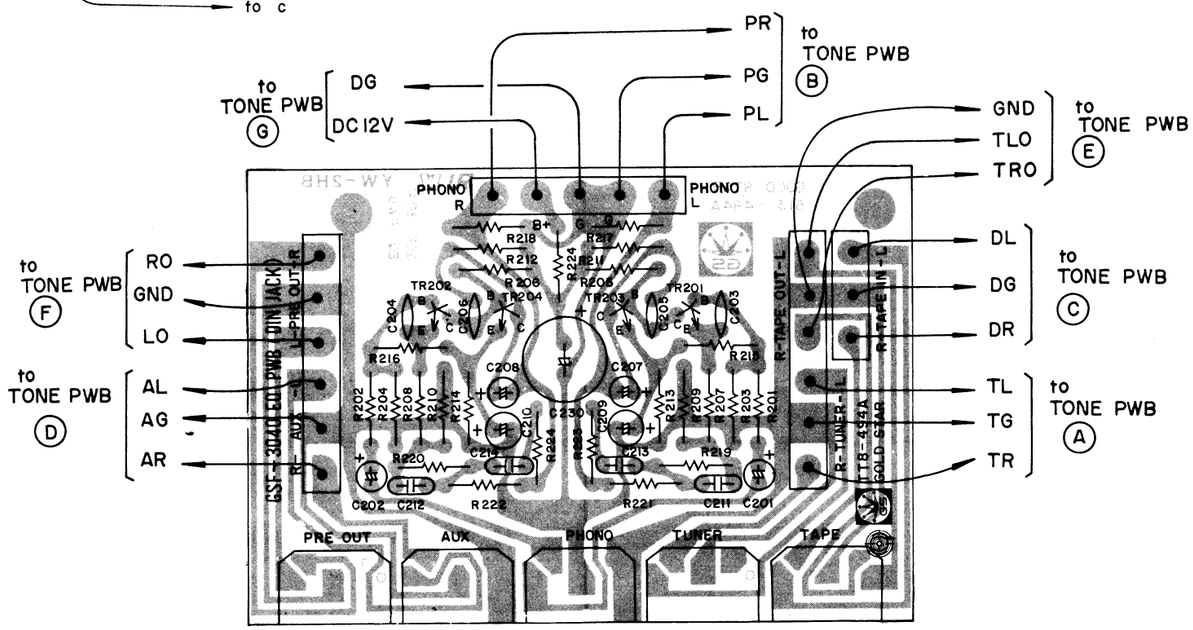
ELECTRICAL PARTS LOCATION AND WIRING

Circuity pattern and printing may be made a little of difference with the set under service. Please make sure of them when servicing.

TONE PWB AY (511-493A)



EQ PWB AY (511-501A)



ELECTRICAL PARTS LIST

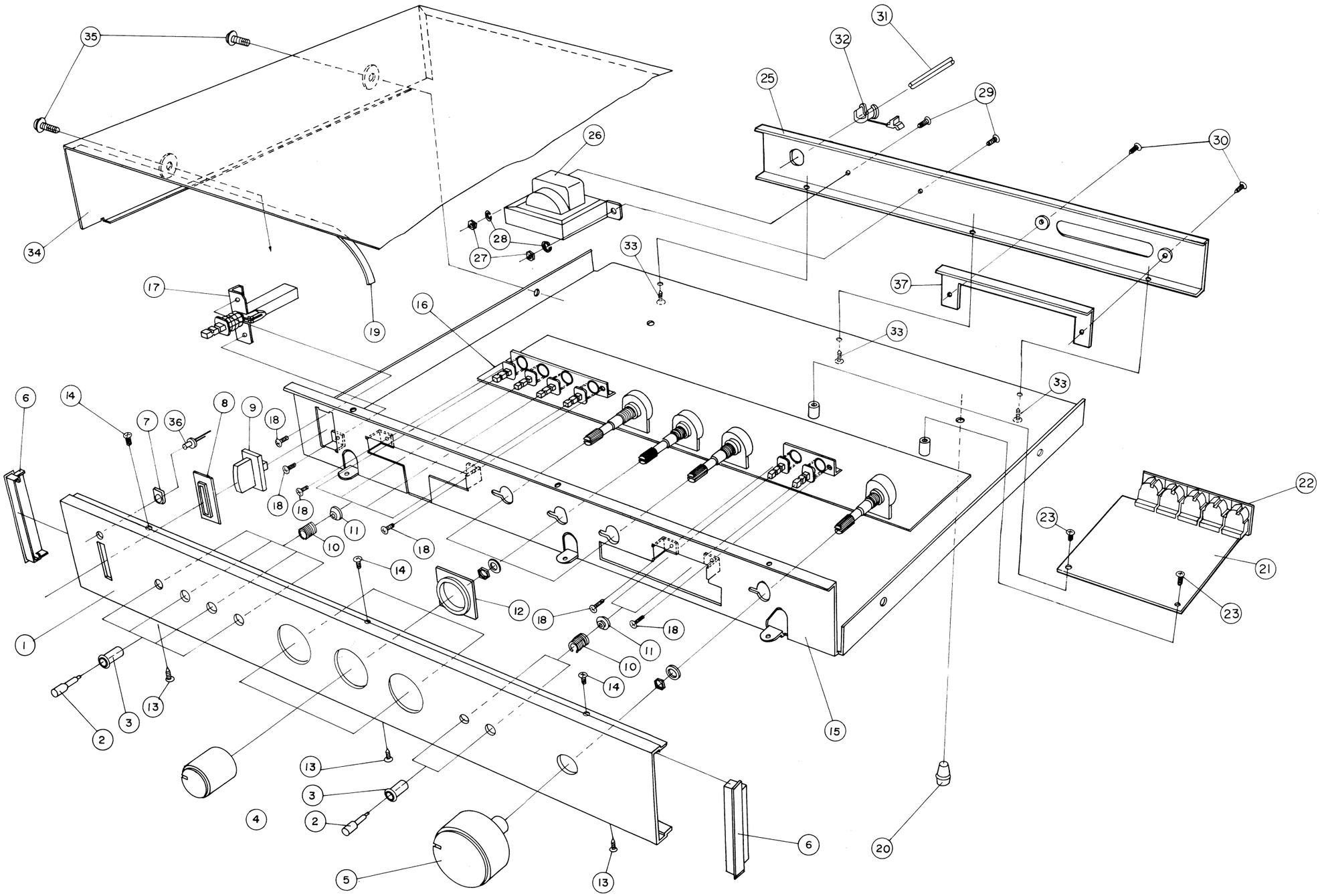
TONE PWB AY (511-493A)

NO.	SYMBOL NO.	PART NO.	DESCRIPTION	NO.	SYMBOL NO.	PART NO.	DESCRIPTION
1	TR101, 102, 103, 104	662-606C	TRANSISTOR MOTOROLA MPS9635C	26	R121	RD822J02	R, CARBON FILM 8.2K-J1/4WR
				27	R114, 113	RD105J09	R, CARBON FILM 1M-J1/4WM
2	TR105	665-808D	TRANSISTOR MOTOROLA LBC547B	28	R101, 102	RD225J09	R, CARBON FILM 2.2M-J1/4WM
3	D102, 151, 152, 153, 1, 2, 3, 4	652-005A	DIODE RECT 1N4001 G, I	29	R139, 140	RD103J09	R, CARBON FILM 10K-J1/4WM
				30	C105, 106	CC470J01	C, CERAMIC CC 47PF-J 5L 50V
4	D155	654-607F	DIODE ZENER ZPD 33 ITT	31	C103, 104, 131, 132	CC121J01	C, CERAMIC CC 120PF-J
5	POWER INDICATOR	653-014A	LED SANYO SLP144 RD				
				32	C151, 152, 153	CQ104J01	C, POLYESTER 0.1MF-J 50V
6	FOR FUNCTION SELECTOR	554-606H	SW, PUSH SUF43S 2CX4 LR12.5MTG	33	C150	CK102Z02	C, CERAMIC CK1000PF-Z 50V
				34	C117, 118	CQ681J01	C, POLYESTER 680PF-J 50V
7	FOR HI-FILTER, LOUDNESS	554-606I	SW, PUSH SUF24S C24 SR12.5MTG	35	C121, 122	CQ102J01	C, POLYESTER 0.001MF-J 50V
				36	C115, 116	CQ562J01	C, POLYESTER 0.0056MF-J
8	FOR VOLUME	611-615B	VR, R. GM80E-100KBX2 30KQ 41C	37	C113, 114	CQ153J01	C, POLYESTER 0.015MF-J 50V
9	FOR BALANCE	611-611A	VR, R. VM10E-100KW 25KO (PWB)	38	C123, 124, 125 126	CQ333J01	C, POLYESTER 0.033MF-J 50V
10	FOR TREBLE BASS	611-612A	VR, R. GM70E-100KBX2 25KQ (PWB)				
				39	C119, 120	CQ473J01	C, POLYESTER 0.047MF-J 50V
11		586-101A	FUSE HOLDER KS CLIP TYPE 5x20	40	C109, 110	CE475D01	C, ELECTROLYTIC 4.7MF 25V
12		585-119B	FUSE, SEMKO 250V 100MA SLO	41	C133, 134	CE336C01	C, ELECTROLYTIC 33MF 16V
13	R137, 138	RD561J09	R, CARBON FILM 560-J1/4WM	42	C155	CE476E01	C, ELECTROLYTIC 47MF 35V
14	R111, 115	RD102J09	R, CARBON FILM 1K-J1/4WM	43	C111, 112	CE105F01	C, ELECTROLYTIC 1MF 50V
15	R112, 116	RD102J02	R, CARBON-FILM 1K-J1/4WM	44	C135 136	CE106B01	C, ELECTROLYTIC 10MF-10V
16	R135, 136	RD472J09	R, CARBON FILM 4,7K-J1/4WM	45	C127, 128, 129, 130, 156,	CE335F01	C, ELECTROLYTIC 3.3MF 50V
17	R107, 108, 152	RD682J09	R, CARBON FILM 6.8K-J1/4WM				
18	R119, 120, 122, 126, 125	RD822J09	R, CARBON FILM 8.2K-J1/4WM	46	C154	CE227F01	C, ELECTROLYTIC 220MF 50V
				47	C101, C102	CQ224J01	C, POLYESTER 0.22MF-J 50V
19	R129, 130	RD822J09	R, CARBON FILM 8.2K-J1/4WM	48		639-602H	COIL, PEAKING 5.6MH
20	R131 132	RD153J09	R, CARBON FILM 15K-J1/4WM	49	C201, 202, 203, 204, 205, 206, 207	CC101J02	C, CERAMIC CC100PF-J SL 50V
21	R127, 128	RD273J09	R, CARBON FILM 27K-J1/4WM				
22	R151	RD123J09	R, CARBON FILM 12K-J1/4WM				
23	R109, 110	RD564J09	R, CARBON FILM 560K-J1/4WM	50	C208	CC101J01	C, CERAMIC CC 100PF-J SL 50V
24	R117, 118	RD105J09	R, CARBON FILM 1M-J1/4WM	51	R207, 208	RD101J09	R, CARBON FILM 100-J1/4WM
25	R103, 104, 105, 106, 133, 134	RD225J09	R, CARBON FILM 2.2M-J1/4WM	52	R201, 202, 203, 204, 205, 206	RD272J09	R, CARBON FILM 2.7K-J1/4WM

EQ PWB AY (511-501A)

NO.	SYMBOL NO.	PART NO.	DESCRIPTION	NO.	SYMBOL NO.	PART NO.	DESCRIPTION
1	TR201, 202, 203, 204	662-606C	TRANSISTOR MOTOROLA MPS9635C	11	R203, 204	RD473J09	R, CARBON FILM 47K-J1/4WM
				12	R215, 216	RD104J09	R, CARBON FILM 100K-J1/4WM
2		573-060E	SOCKET AY, RCA	13	R205, 206	RD224J09	R, CARBON FILM 220K-J1/4WM
3	R207, 208	RD270J09	R, CARBON FILM 27-J1/4WM	14	R219, 220	RD334J09	R, CARBON FILM 330K-J1/4WM
4	R225	RD101J09	R, CARBON FILM 100-J1/4WM	15	C203, 204, 205, 206	CC121J01	R, CERAMIC CC 120PF-J
5	R209, 210	RD271J09	R, CARBON FILM 270-J1/4WM				
6	R201, 202, 213, 214	RD102J09	R, CARBON FILM 1K-J1/4WM	16	C213, 214	CQ182J01	C, POLYESTER 0.0018MF-J 50V
				17	C211, 212	CQ103J01	C, POLYESTER 0.01MF-J 50V
7	R223, 224	RD182J09	R, CARBON FILM 1.8K-J1/4WM	18	C209, 210	CE476801	C, ELECTROLYTIC 47MF 10V
8	R217, 218	RD822J09	R, CARBON FILM 8.2K-J1/4WM	19	C201, 202, 207, 208	CE475D01	C, ELECTROLYTIC 4.7MF 25V
9	R211 212	RD103J09	R, CARBON FILM 10K-J1/4WM				
10	R221, 222	RD333J09	R, CARBON FILM 33K-J1/4WM	20	C230	CE227E01	C, ELECTROLYTIC 220MF 35V

EXPLODED VIEW FOR CABINET



PARTS LIST FOR CABINET EXPLODED VIEW

This parts list is only applicable to Gold Star Standard.
Be sure that all parts No's are subject to change according to regional characteristic.

NO.	PART NO.	DESCRIPTION	NO.	PART NO.	DESCRIPTION
1	258-401A	PANEL FRONT	19	472-604B	FELT
2	273-308A	KNOB, PUSH	20	265-003A	FOOT RUBBER
3	384-048A	GUIDE, PUSH KNOB	21	511-501A	PWB AT EQ
4	273-306A	KNOB, FUNCTION	22	573-060E	SOCKET AY, RCA
5	273-305A	KNOB, VOLUME	23	MRC1830J	SCREW 3x6
6	276-067A	SIDE CAP (R, L)	24	NHA 1800J	NUT
7	219-038A	LED HOUSING	25	256-400C	PLATE, BACK
8	384-050A	GUIDE POWER KNOB	26	641-641C	POWER TRANS (FOR 220V)
9	273-309A	KNOB, POWER	27	NHA1800J	NUT NH1-3
10	442-634F	SPRING KNOB	28	WSB22000	WASHER, SPRING
11	334-049A	STOPPER SPRING	29	MRC1836I	SCREW, MCC2+3x8
12	384-051A	GUIDE CONTROL KNOB	30	MRC1836I	SCREW MRC 3x8
13	MRC1830J	SCREW TRQ2+3x6	31	681-003D	POWER CORD
14	MCC1830J	SCREW MCC+3x6	32	324-348A	HOLDER CORD HEYCO
15	313-192D	CHASSIS MAIN	33	TRQ1830J	SCREW
16	511-493A	PWB TONE	34	213-191C	CABINET
17	554-601B	S/W UNI-PUSH SUE-12	35	353-027G	SPECIAL SCREW
18	MRC1830J	SCREW	36	653-014A	LED SLP144RD

MEMO